Product datasheet

Anti-FANCI antibody ab15344

Overview

**Product name**
Anti-FANCI antibody

**Description**
Rabbit polyclonal to FANCI

**Host species**
Rabbit

**Tested applications**
Suitable for: WB

**Species reactivity**
Reacts with: Human

Predicted to work with: Chimpanzee, Rhesus monkey, Gorilla, Orangutan

**Immunogen**
Synthetic peptide within Human FANCI aa 200-250. The exact sequence is proprietary.

Database link: Q9NVI1

Properties

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.

**Storage buffer**
Preservative: 0.09% Sodium azide
Constituent: Tris citrate/phosphate

pH 7 to 8

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

Applications

Our [Abpromise guarantee](#) covers the use of ab15344 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>⭐⭐⭐⭐⭐️</td>
<td>1/2500 - 1/10000. Detects a band of approximately 145 kDa (predicted molecular weight: 149, 142, 27 kDa).</td>
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Function
Required for maintenance of chromosomal stability. Involved in the repair of DNA double-strand breaks by homologous recombination and in the repair of DNA cross-links. Participates in S phase and G2 phase checkpoint activation upon DNA damage. Promotes FANCD2 ubiquitination and recruitment to DNA repair sites.

Involvement in disease
Defects in FANCI are a cause of Fanconi anemia complementation group I (FANCI) [MIM:609053]. It is a disorder affecting all bone marrow elements and resulting in anemia, leukopenia and thrombopenia. It is associated with cardiac, renal and limb malformations, dermal pigmented changes, and a predisposition to the development of malignancies. At the cellular level it is associated with hypersensitivity to DNA-damaging agents, chromosomal instability (increased chromosome breakage) and defective DNA repair.

Domain
The C-terminal 30 residues are probably required for function in DNA repair.

Post-translational modifications
Monoubiquitinated on Lys-523 during S phase and upon genotoxic stress. Deubiquitinated by USP1 as cells enter G2/M, or once DNA repair is completed. Monoubiquitination requires the FANCA-FANCB-FANCC-FANCE-FANCF-FANCG-FANCM complex. Ubiquitination is required for binding to chromatin, DNA repair, and normal cell cycle progression. Phosphorylated in response to DNA damage by ATM and/or ATR.

Cellular localization
Nucleus. Concentrates in nuclear foci upon genotoxic stress.

Images

All lanes: Anti-FANCI antibody (ab15344) at 1/5000 dilution

Lane 1: HeLa nuclear extract at 5 µg
Lane 2: HeLa nuclear extract at 20 µg

Developed using the ECL technique.

Predicted band size: 149, 142, 27 kDa

Exposure time: 15 minutes

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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